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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/013517 CLASSIFICATION OF SUBJECT MATTER Int.Cl⁷ F16D3/84, F16J3/04, F16J15/52 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) Int.Cl⁷ F16D3/84, F16J3/04, F16J15/52 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2004 Kokai Jitsuyo Shinan Koho 1971-2004 Toroku Jitsuyo Shinan Koho 1994-2004 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X Microfilm of the specification and drawings 1,4 annexed to the request of Japanese Utility Y 2,3,5 Model Application No. 19878/1991(Laid-open No. 116022/1992) (NTN Corp.), 15 October, 1992 (15.10.92), Par. Nos. [0011] to [0013]; Figs. 2, 3 (Family: none) X Microfilm of the specification and drawings 1,4 Y annexed to the request of Japanese Utility 2,3,5 Model Application No. 6541/1999(Laid-open No. 98221/1990) (Mitsubishi Motors Corp.), 06 August, 1990 (06.08.90), Page 6, line 10 to page 7, line 10; Figs. 2 to 4 (Family: none) Further documents are listed in the continuation of Box C. See patent family annex. Special categories of cited documents: later document published after the international filing date or priority "A" document defining the general state of the art which is not considered date and not in conflict with the application but cited to understand to be of particular relevance the principle or theory underlying the invention earlier application or patent but published on or after the international document of particular relevance; the claimed invention cannot be filing date considered novel or cannot be considered to involve an inventive document which may throw doubts on priority claim(s) or which is step when the document is taken alone cited to establish the publication date of another citation or other document of particular relevance; the claimed invention cannot be special reason (as specified) considered to involve an inventive step when the document is document referring to an oral disclosure, use, exhibition or other means combined with one or more other such documents, such combination document published prior to the international filing date but later than being obvious to a person skilled in the art the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 14 December, 2004 (14.12.04) 28 December, 2004 (28.12.04)

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International application No.

PCT/JP2004/013517

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(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X Y	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 157039/1983(Laid-open No. 64362/1985) (Mitsubishi Motors Corp.), 07 May, 1985 (07.05.85), Page 3, lines 2 to 10; Fig. 2 (Family: none)	1 2,3,5
Y	US 5836824 A (GKN Automotive AG), 17 November, 1998 (17.11.98), Column 4, lines 32 to 51; Fig. 3 & DE 19615861 A & FR 2747757 A	2,3,5
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